

NOTE: SEE LAST PAGE FOR CONDITIONS UNDER WHICH THE INFORMATION AND RECOMMENDATIONS OF THIS DATA IS FURNISHED.

MATERIAL SAFETY DATA

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NA= Not Applicable

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SECTION I - IDENTIFICATION

Trade Name: Liquid Bacteria Concentrate 10 XL Plus

Name and/or Family or Description: Bacterial/Enzyme Complex Mixture
(No IUC name for the mixture is known to exist)

Chemical Formula: NA

DOT HAZARD CLASS: NA

CAS No. : NA

No separate CAS Number for the mixture is known to exist.

DOT PROPER SHIPPING NAME: Chemicals not otherwise indexed (NOI)
Non hazardous

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT	CAS-NO.	PERCENT	OCCUPATIONAL EXPOSURE LIMITS PEL	VAPOR PRESSURE
Nonylphenol Ethoxylate	9016-45-9	0.25%	NONE	<1 @ 20C/68F

Following comments pertain to Nonylphenol Ethoxylate. This product is moderately irritating to eyes; moderately irritating to skin. Other information: Eye irritation 35.5/110 on rabbit eyes.

Acute Dermal LD (50) for rabbit: greater than 3 g/kg; practically nontoxic.

Inhalation: Mists may cause chest discomfort, mucous membrane irritation, and coughing. Lc(50) Rat is greater than 200 mg/l inspired air.

Oral LD(50) Rat > 3 g/kg slightly toxic.

These compounds are not considered carcinogens by the National Toxicology Program, the International Agency for Research on Cancer, or the Occupational Safety and Health Administration nor are they known to be mutagenic.

IDENTITY	OTHER INGREDIENTS	CAS NO.	WT%	OVER 3%?
Bacteria Complex		(68520-42-3)	0	YES
Water		(7732-18-5)	0	YES
Propylene Glycol		(57-35-8)	0	YES
Lipase		(9001-62-1)	0	NO
Pancrelipase		(53608-75-6)	NA	NO

0 = among 5 most predominant compounds NA = not applicable

SECTION III - PHYSICAL DATA

STATE: Liquid APPEARANCE: Amber liquid ODOR: Fermentation

BOILING PT: 213°F. MELTING PT: As water EVAPORATION RATE: As water

STORAGE CONDITIONS: Store tightly closed in cool, dry place

pH Value (1%): 6.0-8.0 % Volatiles: NA

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT 525°F. (273.9°C.) IGNITION TEMPERATURE NA

FLAMMABLE LIMITS: Not Applicable

Self-contained breathing apparatus and protective clothing should be worn in fighting fires involving chemicals.

Extinguishing Media: Dry powder, Carbon dioxide, chemical foam or water 10%.

The above data is supplied for the organic/surfactant portion of the product even though this product is composed of aqueous emulsion with greater than 85% water content and conditions for sustained fire would seem unlikely.

SECTION V - HEALTH HAZARD DATA

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: Individuals with known allergies, particularly to feedstuffs or enzymes, as well as those individuals with chronic respiratory disease or particular susceptibility thereto and those with asthmatic conditions should avoid contact with all dusty conditions.

PRIMARY ROUTES OF ENTRY: Ingestion and Inhalation, no appreciable entry known through intact skin although irritation possible, see above.

No specific information is available concerning chronic effects of exposure.

EMERGENCY AND FIRST AID PROCEDURES

Rinse mouth/throat with water if only mouth contact occurs. If ingested, give two glasses of water and induce vomiting. Get immediate medical attention. Do not give anything by mouth to an unconscious or convulsing person.

In case of skin contact, wash affected area of skin thoroughly with soap and water and remove and wash contaminated clothing and equipment before reuse. If skin irritation persists after washing, seek medical attention.

In case of inhalation, remove from area of exposure; if allergic symptoms occur in 0-48 hours, seek medical attention.

If eye contact occurs, rinse thoroughly with water for 15 minutes, lifting and lowering upper and lower eyelids, seek immediate medical attention.

Supplementary information available upon request concerning concentrated enzyme exposure.

WARNING STATEMENTS

CUTION! MAY CAUSE SKIN OR EYE IRRITATION. STORE IN COOL DRY PLACE. AVOID CONTACT WITH EYES, SKIN, CLOTHING AND EXCESSIVE INHALATION. WASH HANDS, CLOTHING, AND EQUIPMENT AFTER USE. DO NOT INGEST.

SECTION VI - REACTIVITY DATA

MATERIALS TO AVOID: Oxidizing agents attack the organic components of these products. As with other organic carbonaceous compounds, these reactions result in heat which if contained in a confined space can cause fires. Hypochlorites, chlorinated isocyanurates, and perborates are examples of oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: No uniquely hazardous decomposition products are expected. If the product is burned, as with any nitrogen-containing organic material, oxides of nitrogen, carbon dioxide, and water can be produced. Partial combustion may produce, in addition to the above, soot and various oxides of carbon.

SECTION VII - SPILL, LEAK, AND DISPOSAL INFORMATION

WASTE DISPOSAL - When contaminated in such a way as to prevent reclaim and use as designated, dispose of in a sanitary chemical landfill which complies with all local, state, and federal regulations.

SPILL OR LEAKAGE PROCEDURES - Wear suitable clothing and protective equipment. Dam and recover or mop up bulk material without releasing aerosol and reuse wherever possible; where contaminated or unusable, absorb on suitable material and dispose of by landfilling.

SECTION VIII - SAFE HANDLING AND USE INFORMATION

Permissible Concentrations: Not established

Respiratory Protection: Wear suitable NIOSH-approved dust masks or respiratory protector where local ventilation exhaust is not available or dusty situations are likely to result.

Ventilation: Local ventilation required to prevent ambient air entrainment of fugitive aerosol material.

OTHER PROTECTIVE EQUIPMENT: Eye wash facility

Storage and Handling: Maintain good housekeeping, avoid creating aerosols. Keep out of direct sunlight and in cool dry place as deterioration of product and loss of activity may occur under above conditions.

Eye Protection: ANSI approved safety glasses with side protection

Skin Protection: Long sleeved shirt, trousers, safety shoes, dust mask, and gloves.

Hygienic Practices: Wash hands after handling, as well as any other affected skin areas. Avoid contact with food or food preparatory surfaces. If this occurs wash the area thoroughly with suitable detergent and water. Remove and wash contaminated clothing.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING - Maintain good housekeeping, avoid creating aerosols. For maintenance of product quality, store in dry, cool (under 110 deg. F.) warehouse conditions.

KEEP OUT OF REACH OF CHILDREN

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